APRIL/MAY 2024

23UFBT14 — BASICS OF BIOTECHNOLOGY

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List the scopes of Biotechnology.
2. Explain the advantages of Biotechnology.
3. What is ligase?
4. Explain the term vector.
5. What is red biotechnology?
6. Explain term the blue biotechnology.
7. What are vaccines?
8. Summarize the role of biotechnology in detergent preparation.
9. List any two applications of biotechnology in enzyme technology.
10. Outline the applications of medical biotechnology.

Shanmuga Industries Arts & Science College T.V.Malai

PART B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Identify and explain about ancient biotechnology.

Or

(b) Analyze the disadvantages of biotechnology.

12. (a) Make use of a table to compare type I × type II restriction endonuclease.

Or

(b) Examine the methods adopted transfer the recombinant DNA into host.

13. (a) Organize about Gold biotechnology.

Or

(b) Analyze the salient features of Green biotechnology.

14. (a) Identify the applications of plant biotechnology.

Or

(b) Examine the production of any one dairy product.

15. (a) Organize the applications of industrial biotechnology.

Or

(b) Analyze the applications of herbal biotechnology.

Shanmuga Industries Arts & Science College T.V.Malai

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the history of biotechnology.

17. Appraise the steps involved in the production of recombinant DNA technology.

18. Explain in detail about white Grey biotechnology.

19. Discuss in detail about genetically modified crops.

20. Elaborate in detail about medical biotechnology.

———————